

## 8. Abstract

In a radio communication apparatus, band-pass filters are provided in correspondence with a multiple-band receiver, a multiple-band transmitter and a GPS receiver, respectively. As radio frequency signals received by an external antenna on a vehicle-mounted adapter is inputted to the radio communication apparatus through the external connection terminal 22, signals in necessary frequency bands are passed by the band-pass filters so as to be inputted to the multiple-band receiver and the GPS receiver, respectively. This makes it possible for the connection terminal to be shared in radio communication by a cellular phone and in GPS reception with reception quality kept high both in the radio communication and the GPS reception to allow the number of external connection terminals to be reduced for providing further downsized and lightweight radio communication apparatus.